

Amendments to Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of claims:

Claims 1-7 (cancelled).

8. **(Previously Presented)** A sintered metal part made from a metallurgical powder composition, the composition comprising:

at least about 85 percent by weight of a base metallurgical powder comprising nickel-based powder; and

a silicon containing additive powder in an amount sufficient to provide from about 0.035 to about 0.35 percent by weight silicon in the sintered metal part.

9. **(Previously Presented)** The sintered metal part of claim 8 wherein the silicon containing additive provides from about 0.17 to about 0.35 percent by weight silicon in the sintered metal part.

10. **(Previously Presented)** The sintered metal part of claim 8 wherein the base metallurgical powder comprises a prealloy of nickel-based powder.

11. **(Previously Presented)** The powder composition of claim 8 wherein the silicon containing additive powder has a particle size distribution such that it has a  $d_{50}$  value below about 25 microns.

12. **(Previously Presented)** The sintered metal part of claim 8, wherein the silicon containing additive powder has a particle size distribution such that it has a  $d_{50}$  value below about 25 microns.

13. **(Previously Presented)** A sintered metal part made from a metallurgical powder composition, the composition comprising:

at least about 85 percent by weight of a water atomized base metallurgical powder

comprising nickel-based powder; and

a silicon containing additive powder in an amount sufficient to provide from about 0.035 to about 0.35 percent by weight silicon in the sintered metal part.

14. **(Previously Presented)** The sintered metal part of claim 13 wherein the silicon containing additive provides from about 0.17 to about 0.35 percent by weight silicon in the sintered metal part.

15. **(Previously Presented)** The sintered metal part of claim 13 wherein the base metallurgical powder comprises a prealloy of nickel-based powder.

16. **(Currently Amended)** The [powder composition] sintered metal part of claim 13 wherein the silicon containing additive powder has a particle size distribution such that it has a  $d_{50}$  value below about 25 microns.

17. **(New)** A sintered metal part made from a metallurgical powder composition comprising:

(a) at least about 85 percent by weight of an iron based powder comprising at least 50 percent by weight atomized iron-based powder having an apparent density of between 2.75 and 4.6 g/cm<sup>3</sup>; and

(b) from about 0.05 to about 2.1 percent by weight silicon, wherein the total carbon content of the powder composition is between about 0.015 and about 0.63 percent by weight.

18. **(New)** The sintered metal part of claim 17 wherein the iron based powder comprises iron and at least one alloying element selected from the group consisting of molybdenum, manganese, magnesium, chromium, silicon, copper, nickel, tin, gold, vanadium, columbium, graphite, phosphorus, aluminum, and sulfur.

19. (New) The sintered metal part of claim 17 wherein the iron based powder comprises iron and molybdenum.

20. (New) The sintered metal part of claim 19 further comprising manganese, nickel, or combinations thereof.

21. (New) The sintered metal part of claim 17 wherein the iron based powder comprises iron and manganese.

22. (New) The sintered metal part of claim 21 further comprising nickel.

23. (New) The sintered metal part of claim 17 wherein the iron based powder comprises:

at least about 85 weight percent iron, and

from about 0.25 to about 5 weight percent molybdenum, from about 0.25 to about 5 weight percent manganese, from about 0.25 to about 5 weight percent nickel, or combinations thereof

24. (New) The sintered metal part of claim 17 wherein the density of the sintered part is at least about 6.76 g/cm<sup>3</sup>.